

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

Itwo,

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.2 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04): U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

ERROR DETECTED	
, , ,	VVVVI 10 10 10 10 10 10 10 10 10 10 10 10 10
WITH RULES	CASES: PLEASE DISREGARD ENGLISH NATIONAL
	CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE inclosed in a word processor after creating it. Please adjust your right margin to 3; this will
2Invalid Line I	ength. The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned A	mino. The service white spaces
Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
SVariable Lengt 6PatentIn 2.0	Sequence(s) contain n's or Xaa's representing more than one tesidue. Per Sequence Rules, residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> residue having variable length and indicate in the <220> <221> <221> residue having variable length and indicate in the <220> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221> <221
"bug"	A "bug" in Patentln version 2.0 has caused the <220>-<223> section to be missing from amino acid previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to Artificial or Unknown sequences.
7Skipped Sequenc (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (xi) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences s Sequence(s) missing 16 in the skipped sequences
8Skipped Sequence (NEW RULES)	s Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's	Use of n's and/or v
(NEW RULES) Invalid <213> Response	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or secientific name (Genus/species) <220>-<223> section is required when <213> response is Unknown or
11Usc of <220>	2132 response is Unknown or
12PatentIn 2.0	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or (See "Federal Register," 00/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
3	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk. In can only represent a single nucleotide: "Xaa" can only represent a single amino acid
	AMC - Biotechnology Systems Branch 1000000000000000000000000000000000000



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/798,096A

DATE: 07/27/2004 TIME: 11:56:44

Input Set : A:\pto.lm.TXT

Output Set: N:\CRF4\07272004\J798096A.raw

```
3 <110> APPLICANT: Rea-Min Chu
              Ching-Yi Lin
              Ya-Wen Hsiao
              Kuang-Wen Liao
      7 <120> TITLE OF INVENTION: COMPLEX IMMUNO-GENE MEDICAL COMPOSITION FOR INHIBITING TUMOR
W-->
CELLS
     8 <130> FILE REFERENCE: P/741-176
      9 <140> CURRENT APPLICATION NUMBER: 10/798,096A
     10 <141> CURRENT FILING DATE: 2004-03-11
W--> 11 <160> NUMBER OF SEQ ID:
ERRORED SEQUENCES
        <210> SEQ ID NO: 1
                                                                   Ooes Not Comply
       <211> LENGTH: 636
                                                                   Corrected Diskette Needed
        <212> TYPE: DNA
        <213> ORGANISM: Human
        <223> OTHER INFORMATION: IL-6
   > 19 <400> SEQUENCE: 1
     21 atg aac tec tte tee aca age gee tte ggt eea gtt gee tee tee etg ggg etg ete etg
     22/60
        Met Asn Ser Phe Ser Thr Ser Ala Phe Gly Pro Val Ala Phe Ser Leu Gly Leu Leu
                                                                                            00
E--> 26 Atg ttg cct gct gcc ttc cct gcc cca gta ccc cca gga gaa gat tcc aaa gat gta gcc
     27(
        120
     28 Val Leu Pro Ala Ala Phe Pro Ala Pro Val Pro Pro Gly Glu Asp Ser Lys Asp Val Ala
                        2.5
E--> 31 gcc_cca cac aga cag cca ctc acc tct tca gaa cga att gac aaa caa att cgg tac atc
     32(180 /
     33 Ala Pro His Arg Gln Pro Leu Thr Ser Ser Glu Arg Ile Asp Lys Gln Ile Arg Tyr Ile
     34
E--> 36 ctc gac age atc tca gcc ctg aga aag gag aca tgt aac aag agt aac atg tgt gaa
     37 AGC 240
     38 Leu Asp Gly Ile Ser Ala Leu Arg Lys Glu Thr Cys Asn Lys Ser Asn Met Cys Glu Ser
     39
E--> 41 ago aaa gag gca ctg gca gaa aac aac ctg aac ctt cca aag atg gct gaa aaa gat gga
     43 Ser Lys Glu Ala Leu Ala Glu Asn Asn Leu Asn Leu Pro Lys Met Ala Glu Lys Asp
W--> 44 Gly
W--> 45
                        85
                                            90
                                                                95
                                                                                     100
E--> 47 tgg-ttc caa tet gga ttc aat gag gag act tgc etg gtg aaa atc atc act ggt ett ttg
       Cys Phe Gln Ser Gly Phe Asn Glu Glu Thr Cys Leu Val Lys Ile Ile Thr Gly Leu Leu
```

RAW SEQUENCE LISTING DATE: 07/27/2004
PATENT APPLICATION: US/10/798,096A TIME: 11:56:44

Input Set : A:\pto.lm.TXT

Output Set: N:\CRF4\07272004\J798096A.raw

```
110
                                                                  115
   E--> 52 gag-ttt gag gta tac cta cag tac ctc cag aac aga ttt gag agt agt gag gaa caa gcc
       54 Glu Phe Glu Val Tyr Leu Glu Tyr Leu Gln Asn Arg Phe Glu Ser Ser Glu Glu Gln Ala
                                                             140
                                                    135
  E--> 57 aga gct gtg cag atg agt aca aaa gtc ctg atc cag ttc ctg cag aaa aag gca aag aat
       59 Arg Ala Val Gln Met Ser Thr Lys Val Leu Ile Gln Phe Leu Gln Lys Lys Ala Lys Asn
  W - - > 60
                                              150
   E--> 62 cta gat gca ata acc acc cct gac cca acc aca aat gcc agc ctg ctg acg aag ctg cag
       64 Leu Asp Ala Ile Thr Thr Pro Asp Pro Thr Thr Asn Ala Ser Leu Leu Thr Lys Leu Gln
  W--> 65
   E--> 67 gga cag aac cag tgg ctg cag gac atg aca act cat ctc att ctg cgc agc ttt aag gag
       68 (600)
       69 Ala Gln Asn Gln Trp Leu Gln Asp Met Thr Thr His Leu Ile Leu Arg Ser Phe Lys Glu
  W - - > 70
  E--> 72 ttc qtg cag tcc agc ctg agg gct ctt cgg caa atg
       74 Phe Leu Gln Ser Ser Leu Arg Ala Leu Arg Gln Met
  W--> 75
                                       lease install same error

(220 The Wer (2217, (222) or (223)

Signal Peptide is present,
       77 <210> SEQ ID NO: 2
       78 <211> LENGTH: 60
       79 <212> TYPE: DNA
       80 <213>ORGANISM: Human
       81 <223> OTHER INFORMATION: IL-2 Signal Peptide
  E--> 83 <400> SEQUENCE: 2
  E--> 85 atgratac agg atg caa ctc ctg tct tgc att gca cta agt ctt gca ctt gtc aca aac agt
    , 786 60/
       87 Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu Val Thr Asn Ser
       91 <210> SEQ ID NO: 3
       92 <211> LENGTH: 342
      93 <212> TYPE: DNA
P(V) 45 <223 > OTHER INFORMATION: Partial Sequence Encoding Human IL-15
       101 Asn Trp Val Asn Val Ile Ser Asp Leu Lys Lys Ile Glu Asp Leu Ile Gln Ser Met His
  E--> 104 att gat gct act tta tat acg gaa agt gat gtt cac ccc agt tgc aaa gta aca gca atg
       105 /120 /
       106 Le Asp Ala Thr Leu Tyr Thr Glu Ser Asp Val His Pro Ser Cys Lys Val Thr Ala Met
       107
  E--> 109 aag tgc ttt ctc ttg gag tta caa gtt att tca ctt gag tcc gga gat gca agt att cat
       111 Lys Cys Phe Leu Leu Glu Leu Gln Val Ile Ser Leu Glu Ser Gly Asp Ala Ser Ile His
       112
                                              50
```

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PATENT APPLICATION: US/10/798,096A

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Input Set : A:\pto.lm.TXT

Output Set: N:\CRF4\07272004\J798096A.raw

E--> 114 gat aca gta gaa aat ctg atc atc cta gca aac aac agt ttg tct tct aat ggg aat gta 115 (240) 116 Asp Thr Val Glu Asn Leu Ile Ile Leu Ala Asn Asn Ser Leu Ser Ser Asn Gly Asn W--> 117 Val 70 W--> 11865 E--> 120 aça gaa tot gga tgc aaa gaa tgt gag gaa otg gag gaa aaa aat att aaa gaa ttt ttg 121 (300/ 122 Thr Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu Glu Glu Lys Asn Ile Lys Glu Phe Leu W--> 123 90 E--> 125 cag agt ttt gta cat att gtc caa atg ttc atc aac act tct 126 342 / 127 GIn Ser Phe Val His Ile Val Gln Met Phe Ile Asn Thr Ser W--> 128110 131 <210> SEQ ID NO: 4 well & SAME error 132 <211> LENGTH: 402 133 <212> TYPF: DNA W--> 135 <220> FEATURE: Bases 1-60 Code for IL-2 Signal Peptide

W--> 135 <220> FEATURE: Bases 1-60 Code for IL-2 Signal Peptide

136 <223> OTHER INFORMATION: Artificial Chimoria Communication 136 <223> OTHER INFORMATION: Artificial Chimeric Sequence Encoding IL-25P/IL-15MP WWW 138 <400> SEQUENCE: 4 E--> 140 app tac agg atg caa ctc ctg tct tgc att gca cta agt ctt gca ctt gtc aca aac agt 142 Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu Val Thr Asn Ser 146 (120 147 Asn Trp Val Asn Val Ile Ser Asp Leu Lys Lys Ile Glu Asp Leu Ile Gln Ser Met His E--> 150 apt-gat gct act tta tat acg gaa agt gat gtt cac ccc agt tgc aaa gta aca gca atg 151 (180/ 152 Ile Asp Ala Thr Leu Tyr Thr Glu Ser Asp Val His Pro Ser Cys Lys Val Thr Ala Met E--> 155 aag tgc ttt ctc ttg gag tta caa gtt att tca ctt gag tcc gga gat gca agt att cat 156 (240) 157 Lys Cys Phe Leu Leu Glu Leu Gln Val Ile Ser Leu Glu Ser Gly Asp Ala Ser Ile His 70 75 E--> 160 gat aca gta gaa aat ctg atc atc cta gca aac aac agt ttg tct tct aat ggg aat gta 161 (300) 162 Asp Thr Val Glu Asn Leu Ile Ile Leu Ala Asn Asn Ser Leu Ser Ser Asn Gly Asn Val E--> 165 Aca yaa tot gga tgc aaa gaa tgt gag gaa otg gag gaa aaa aat att aaa gaa ttt ttg 166 (360/ 167 Thr Glu Ser Gly Cys Lys Glu Cys Glu Glu Leu Glu Glu Lys Asn Ile Lys Glu Phe Leu 168 110 E--> 170 eag agt ttt gta cat att gtc caa atg ttc atc aac act tct 171 402 ~ 172 GIn Ser Phe Val His Ile Val Gln Met Phe Ile Asn Thr Ser 173 125 130

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/798,096A
DATE: 07/27/2004
TIME: 11:56:45

Input Set : A:\pto.lm.TXT

Output Set: N:\CRF4\07272004\J798096A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 21,23,26,28,31,33,38,64,72

Seq#:2; Line(s) 87

Seq#:3; Line(s) 101,106,111,122,125
Seq#:4; Line(s) 142,147,152,157,162,167

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/798,096A TIME: 11:56:45

DATE: 07/27/2004

Input Set : A:\pto.lm.TXT

Output Set: N:\CRF4\07272004\J798096A.raw

```
L:7 M:283 W: Missing Blank Line separator, <120> field identifier
L:8 M:283 W: Missing Blank Line separator, <130> field identifier
L:9 M:283 W: Missing Blank Line separator, <140> field identifier
L:11 M:283 W: Missing Blank Line separator, <160> field identifier
L:19 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:1
L:21 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:1
L:26 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:120 SEQ:1
L:31 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:180 SEQ:1
L:36 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:237 SEQ:1
L:41 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:300 SEQ:1
L:44 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:45 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:47 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:360 SEQ:1 /
L:50 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:52 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:420 SEQ:1
L:55 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:57 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:480 SEQ:1
L:60 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:62 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:540 SEQ:1
L:65 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:67 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:600 SEQ:1
L:70 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:72 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:636 SEQ:1
L:75 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:83 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:2
L:85 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:2
L:97 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:3
L:99 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:3
L:104 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:120 SEQ:3
L:109 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:180 SEQ:3
L:114 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:240 SEQ:3
L:117 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:118 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:120 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:300 SEQ:3 /
L:123 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:125 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:342 SEQ:3
L:128 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:135 M:283 W: Missing Blank Line separator, <220> field identifier
L:135 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:140 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:4
L:145 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:120 SEQ:4
L:150 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:180 SEQ:4
L:155 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:240 SEQ:4
L:160 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:300 SEQ:4
L:165 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:360 SEQ:4
L:170 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:402 SEQ:4
```